Unit 1 Day 3 HW **Name:** _____

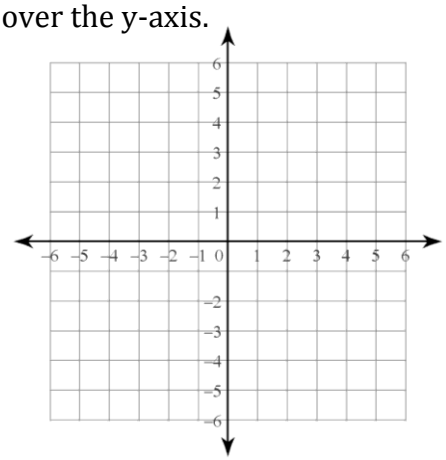
Graph the image using the transformation given, and give the algebraic rule as requested

1. ΔEFG if E(-1, 2), F(2, 4) and G(2, -4) reflected over the y-axis.

E' _____

F' _____

G' _____



Notation:

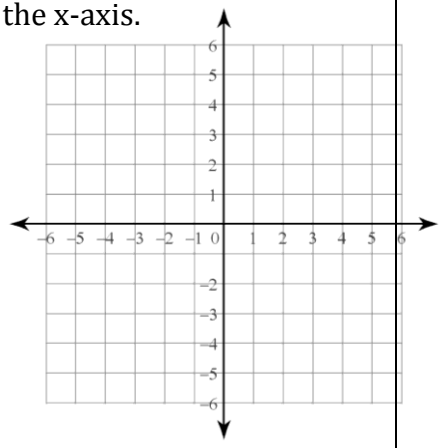
Rule:

2. ΔPQR if P(-3, 4), Q(4, 4) and R(2, -3) reflected over the x-axis.

P' _____

Q' _____

R' _____



Notation:

Rule:

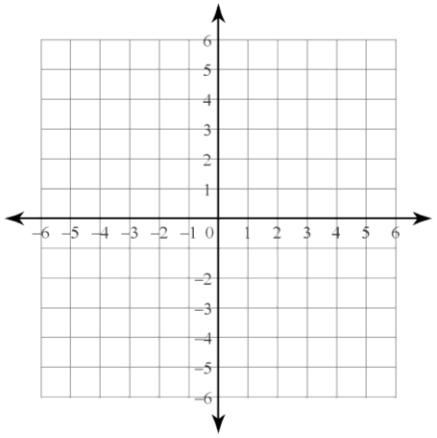
3. Quadrilateral VWXY if V(0, -1), W(1, 1), X(4, -1), and Y(1, -5) reflected over the line y = x.

V' _____

W' _____

X' _____

Y' _____



Notation:

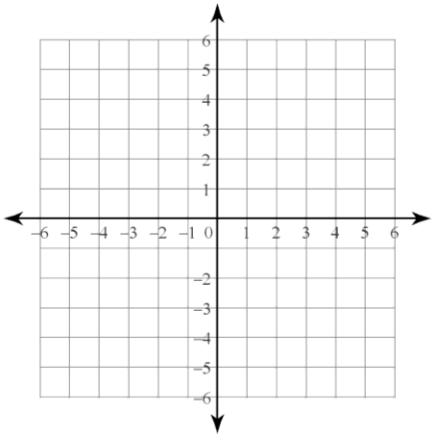
Rule:

4. ΔBEL if B(-2, 3), E(2, 4), and L(3, 1) reflected over the line $y = -x$.

B' _____

E' _____

L' _____



Notation:

Rule:

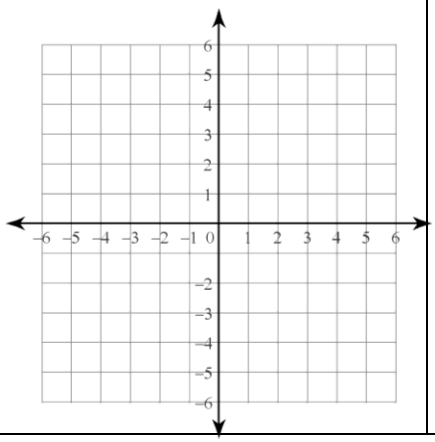
5. Square SQUR if S(1, 2), Q(2, 0), U(0, -1), and R(-1, 1) reflected over the line $x = 1$.

S' _____

Q' _____

U' _____

R' _____



Notation:

Rule:

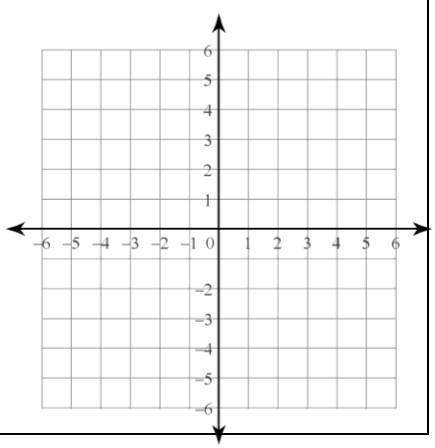
6. Quadrilateral MATH if M(1, 4), A(-1, 2), T(2, 0) and H(4, 0) reflected over $y = 2$.

M' _____

A' _____

T' _____

H' _____

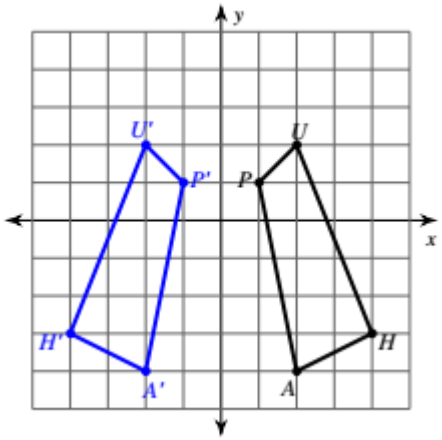


Notation:

Rule:

Write a specific description of each transformation and give the algebraic rule, as requested.

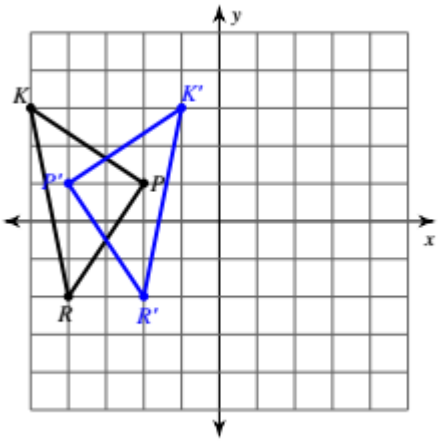
7.



Description:

Algebraic Rule:

8.

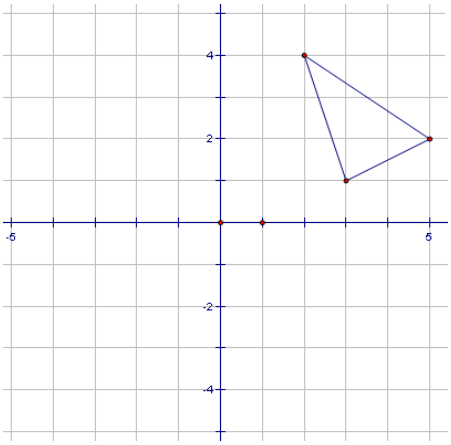


Description:

Algebraic Rule:

Find the image of the following transformations and give a specific description.
Hint: If you get stuck, review the Checkpoints after today's activities. ☺

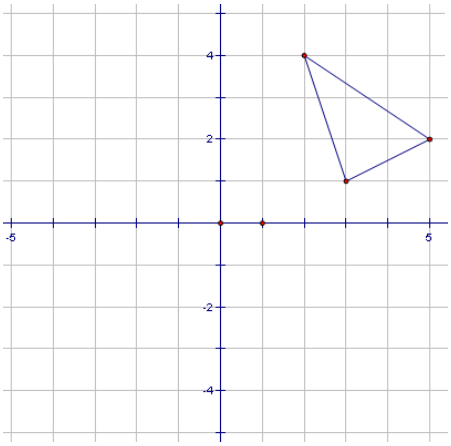
9. The points (2,4), (3,1), (5,2) are reflected with the rule $(x, y) \rightarrow (x, -y)$



Description:

Notation:

10. The points (2,4), (3,1), (5,2) are reflected with the rule $(x, y) \rightarrow (-x, y)$



Description:

Notation: